October 31, 1930

The Commissioner of Fisheries Washington, D. C.

I herewith present a report covering all packing and fishing operations in the Seward-Katella District, Central Alaska, embracing Resurrection Bay, Prince William Sound, the Copper and the Bering river areas, for the season of 1930, together with the activities of the Bureau of Fisheries in those waters.

Respectfully submitted,

issistant Agent

## IN GENERAL

This being my first season in the Central Alaska District considerable time had to be spent in familiarizing myself with office routine and records and in outlining a system of patrol and administration. The policy adopted was a continuance of office and field activities along lines followed at the Cordova office in previous years by my predecessor.

King Salmon inaugurate the salmon running season by placing their run in motion in the waters of the district early in May.

Red Salmon follow, starting their initial run in the Copper river about the middle of May. Somewhat behind the Copper river run of Reds comes the red run into the Bering river and its tributaries. Resurrection Bay and Prince William Sound furnish the next run of Reds.

Chum and Pink Salmon runs are moving in Prince William Sound coincident with the development of the red run in Resurrection Bay. These same varieties also develops their runs in Resurrection Bay while the red run in those waters is at its heighth.

Coho Salmon run last and are moving simultaneously in Prince William Sound, Resurrection Bay, Copper and Bering rivers. The middle of September usually sees the end of the coho runs and this closes the salmon season for the year.

The fishing and canning season opens about the 10th of May, when king runs strengthen on the Copper river. By the middle of June the red run begins showing strength and packers are busily engaged until the close of the coho season after the middle of September.

Ice conditions in the Copper river this year hampered early May fishing operations.

Gill net fishermen secured only fair individual catches during the king and red runs on the Copper river owing to the large number engaged. Less total gear was utilized during the coho runs although the individual fishermen generally fished more web, using both stake and drift nets. Owing to the heavy run of cohos the fishermen did well.

Purse seiners generally did not make good catches on Prince William Sound. Isolated boats which fished the eastern side of the Sound, in lieu of going to the western side in the vicinity from Long Bay to Port Wells where practically every seiner proceeded, did well. Fully three-fourths of the seiners engaged in fishing on the Sound concentrated their efforts primarily in the region from Long Bay to Port Wells.

#### SALMON RUNS

In volume the run of King Salmon was about normal. The first fish of this species was brought in from the Copper river flats May 11th.

The runs of Reds on the Copper river were good. These runs began showing strength May 27th. Catches by fishermen continued good until the 7th of June when the run slackened. With the resumption of fishing after the closed season of June 7th and 8th the catches decreased and by the middle of the month some of the fishermen commenced returning to Cordova. Fishing remained slack through the remainder of the month but in the first days of July, just preceding the close of the season, the few boats remaining on the flats struck a run of fish and made their best catches of the season.

Prince William Sound had a good run of all varieties. The runs were a few days late, striking the traps full strength July 21st and continuing throughout the month with good showings of fish in most localities at the close of the season August 2nd.

## CATCH STRAIN

Investigation of the spawning beds of the Copper river disclosed that the intensive fishing operations placed a greater strain upon the run in that stream than should be permitted. Judging from the catches made by the fishermen and the showing of fish on the Delta of the river during the height of the run there was a substantial volume of fish in motion, but nevertheless the spawning showing was by no means commensurate with the size and force of this volume.

A complete report of the findings on two spawning investigations of the Copper river will be submitted by Mr. Seton Thompson, temporary scientific assistant, who was detailed by the Bureau to handle the inquiry.

None of the foregoing, however, applies to the spawning escapement of pinks and chums. Owing to the early closing of the season on Prince William Sound, - August 2nd -, coupled with runs being a few days late, the catch strain on these two varieties was radically relieved in the Sound waters. In fact careful estimates of the spawning areas revealed that the escapement, which was just under 2,500,000 of chums and pinks, in the waters of the Sound, exceeded that of any other year excepting the season of 1925.

Nevertheless, in the Port Wells region, where the runs of pinks and chums were earlier than in the waters of other portions of the Sound, the escapement was short. This was due to a short escapement in 1928 and a poor return this year. The large number of seiners further impaired these runs.

#### GEAR

There was too much gear in the water this season, far too much, for the length and volume of the runs. Last season also saw an excessive gear increment but the salmon runs in these waters for the season of 1929 were the largest in the history of fishing operations in Prince William Sound, and due to the sheer enormity of the masses of fish moving, did not by any means suffer the whittling down by fishing operations that the smaller sized runs of this season suffered during the active season.

The operations of this season, therefore, definitely establish that the average run in the district cannot by any means with safety stand the excessive catches caused by the recent large increase in gear.

Recommendations bearing on this question are embraced in this report.

#### TRAPS

Fifty-nine traps were operated in the Central Alaska region, by thirteen operating companies, during the season of 1930. Two operators, the Northern Light Packing Company, located on Mountain Slough and the New England Fish Company, located in Drier Bay, did not operate traps. There was one independent trap operated by Mr. B. E. Lee who sold the total catch to the Port Ashton plant of the Shepard Point Packing Company. The operators and the number of traps operated by each follow:

| Company                            | Location of Plant   | Traps Operated |
|------------------------------------|---------------------|----------------|
| Alaska Pacific Salmon Corporation  | Drier Bay           | 4              |
| Copper River Packing Company       | Port Nellie Juan    | 8              |
| Cordova Packing Company            | Cordova             | 1              |
| Glacier Packing Company            | Cordova             | 1              |
| New England Fish Company           | Cordova             | 8              |
| Northwestern Fisheries Company     | Orca                | 6              |
| Pacific American Fisheries         | Valdez              | 4              |
| Pioneer Packing Company            | Cordova             | 4              |
| Pioneer Sea Foods Company          | Eyak Ri <b>ve</b> r | 2              |
| Premier Salmon Company             | Stevens Creek       | 3              |
| San Juan Fishing & Packing Company | Port San Juan       | 5              |
| Shepard Point Packing Company      | Port Ashton         | 8              |
| Shepard Point Packing Company      | Shepard Point       | 4              |
| B. E. Lee                          | Port Nowell         | 1              |

## SALMON PACK

The pack of the Prince William Sound area this season was a good average, exceeding the packs of three years and being smaller than the packs of three years of the past seven.

The pack of the Copper river area was good, being the second best secured over a period of many years with relation to Reds and the largest for Cohos.

During the 1930 season the number of canneries operating was the same as in the season of 1929. Canneries operating, their location and pack secured. follow:

| Company                            | Location of Plant | Total Pack |
|------------------------------------|-------------------|------------|
| Alaska Pacific Salmon Corporation  | Drier Bay         | 30,629     |
| Copper River Packing Company       | Port Nellie Juan  | 90,037     |
| Cordova Packing Company            | Cordova           | 33,332     |
| Glacier Packing Company            | Cordova           | 32,877     |
| New England Fish Company           | Cordova           | 55,887     |
| New England Fish Company           | Drier Bay         | 13,324     |
| Northern Light Packing Company     | Mountain Slough   | 24,790     |
| Northwestern Fisheries Company     | Orca              | 41,449     |
| Pacific American Fisheries         | Valdez            | 45,303     |
| Pioneer Packing Company            | Cordova           | 64,681     |
| Pioneer Sea Foods Company          | Eyak River        | 48,776     |
| Premier Salmon Company             | Stevens Creek     | 29,617     |
| San Juan Fishing & Packing Company | Port San Juan     | 56,591     |
| Seward Fisheries Incorporated      | Seward            | 15,419     |
| Shepard Point Packing Company      | Port Ashton       | 30,039     |
| Shepard Point Packing Company      | Shepard Point     | 78,695     |

#### CONSERVATION

The timing of the salmon runs in Port Wells waters, being earlier than in other portions of Prince William Sound, a closure of this area to fishing operations at an earlier date seems advisable.

Escapement would be speeded up and increased spawning promoted by closing the Upper Culross Island trap as well as all the waters of the Port Wells region about July 25th.

The extension of the prohibitive areas beyond the 500-yard limit, as prescribed at present in certain regulations, seems to be of very little value from a conservation standpoint.

A DILIGENT AND SPEEDY PATROL OF ALL STREAMS IS ABSOLUTELY ESSENTIAL AND WILL PROTECT CLOSED WATERS WHEN PROPERLY ADMINISTERED. Along with the foregoing statement it should be said that an efficient speed boat and airplane patrol will do more to conserve the runs and continue their present volume than any other means that can be adopted.

In making an investigation of spawning escapement it was observed that by far the greater volume of escapement was achieved by the runs after the active fishing season had closed. This was caused by the enormous amount of gear working heavily and throwing the runs out of their orbital motion during the major portion of the season.

It was also noted that the runs were just beginning to enter protected areas of salmon streams during the last days of July just prior to the close of the season.

# VIOLATIONS

With the commencement of the fishing season operators were advised that all provisions of the regulations were to be observed. As violations continued to occur with the progress of the season larger fines were assessed. Wide publicity was secured through the operating companies in cases involving violations of the Fishery Regulations and the fishermen were acquainted with the policy of assessing larger fines so long as illegal fishing continued. By following this procedure violations decreased and it was worthy of note that during the coho season illegal fishing was reduced to the minimum. There were twenty-one violations of the regulations in the Central Alaska District.

One case involved the taking of clams under the legal limit regulating size. The defendant on plea of guilty and payment of twenty-five dollars fine was released.

Twelve arrests were made for various forms of illegal gill net operations on the Copper river flats, and on plea of guilty and payments of fines of from fifty to two hundred dollars the offenders were released.

Six arrests were made for various forms of illegal seining operations on Prince William Sound, and upon plea of guilty and payment of fines ranging from \$150 to \$300 the offenders were released.

One arrest for illegal seining on Prince William Sound to secure fox feed, following the close of the season, was made, and on plea of guilty and the payment of \$100 fine the offender was released.

One operating company was arrested for packing fish over forty-eight hours old, the same not having been iced or frozen. On plea of guilty the company was fined \$500.

#### BUREAU ACTIVITIES

Bureau of Fisheries activities commenced with the departure of the writer and stream guard, Morris Rafn, from Seattle on the steamer "Northwestern" April 12th. The "Northwestern" arrived in Cordova on the morning of April 18th.

The gas boat "Pilot" was immediately chartered and put into service April 21st, to patrol the clam bars and receiving stations on the Copper River flats.

The chartered boat "Prospector" commenced duty May 19th and immediately took up the work of erecting stream markers on the Copper River flats and patrolling that area.

The chartered boat "Stanley" was sent out on June 21st to station stream guards in various localities on Prince William Sound, and to patrol those waters.

The U. S. F. S. "Kittiwake" left Seattle May 21st and arrived in Cordova on June 3rd. She was immediately detailed to work in erecting stream markers on Prince William Sound.

The number of stream guards used during the season fluctuated, the least number employed being three and the largest complement nine. These men were all residents of Alaska and supplied small power boats when operating for the Bureau.

In addition to the foregoing three stream guards were taken to the Central Alaska District from Seattle. These men were stationed on the chartered patrol boats throughout the summer.

Through the active fishing season a continuous patrol of all the fishing areas of the Central Alaska District was maintained by the U. S. F. S. "Kittiwake", and the chartered boats, "Prospector", "Pilot", and "Stanley".

All bays closed to fishing were diligently patrolled and the traps of the region were regularly inspected during weekly closed periods.

All stream markers were checked and those damaged or destroyed were replaced with new markers having the recommended change in the date and name of the Secretary of Commerce entered thereon.

Surveys of all accessible spawning areas were made at frequent intervals during the active fishing season by stream guards stationed on the various patrol boats, and a complete survey of all streams was taken at the close of fishing operations, a detailed report of which follows:

CHART NO. 8515 FINAL ESTIMATE (EAST SIDE)

1930

| STREAM          | STREAM | DATE        | NUMBER           | PERCENT |
|-----------------|--------|-------------|------------------|---------|
| LOCATION        | NUMBER | ESTIMATED   | FISH             | CHUMS   |
| Zaikof Bay      | 1      | September 8 | 8,000            | 20      |
| Zaikof Bay      | lA     | September 7 | 300              |         |
| Zaikof Bay      | 2      | September 8 | 1,700            |         |
| Ziakof Bay      | 3      | September 8 | 8,500            | 80      |
| Rocky Bay       | 4      | September 7 | 19,000           |         |
| Port Chalmers   | 5      | September 4 | 8,500            |         |
| Port Chalmers   | 5A     | September 5 | 7,000            |         |
| Port Chalmers   | 6      | September 6 | 4,500            |         |
| Port Chalmers   | 7      | September 6 | 8,000            |         |
| Port Chalmers   | 8      | September 6 | 6,500            |         |
| Port Chalmers   | 9      | September 5 | 46,000           | 90      |
| Montague Island | 10     | September 5 | 3,500            |         |
| Montague Island | 10A    | September 5 | 4,000            | 60      |
| Montague Island | lob    | September 5 | 1,500<br>127,000 | 50      |
|                 |        |             | 101,000          |         |

NOTE: Of the above total 74,050 were pink salmon and 52,950 chums.

| CHART NO. 8515          | FINAL E | STIMATE (WEST SIDE | 1930    |    |
|-------------------------|---------|--------------------|---------|----|
| Hanning Bay             | 11      | September 2        | 12,000  | 50 |
| MacLeod Harbor          | 12      | September 2        | 13,500  | 30 |
| Montgomery Bay          | 13      | August 26          | 2,500   |    |
| Big Bay                 | 14      | August 26          | 7,000   |    |
| Wilson Bay              | 15      | September 3        | 2,250   |    |
| Crab Bay                | 16      | August 26          | 10,600  | 5  |
| Latouche Passage        | 17      | August 25          | 5,000   |    |
| Shelter Bay             | 18      | August 25          | 1,600   |    |
| Shelter Bay             | 19      | August 25          | 1,800   |    |
| Hogan Bay               | 20      | September 2        | 5,500   |    |
| Snug Harbor             | 21      | September 1        | 4,000   |    |
| Snug Harbor             | 21A     | September 1        | 1,150   |    |
| Marsha Bay              | 22      | September 2        | 400     |    |
| Marsha Bay              | 23      | September 2        | 1,100   |    |
| Drier Bay               | 24      | August 30          | 15,000  | 1  |
| Drier Bay               | 25      | August 30          | 1,300   |    |
| Drier Bay               | 26      | August 30          | 3,500   |    |
| Drier Bay               | 27      | August 30          | 5,000   | 65 |
| Thumb Bay               | 28      | Allowance          | 2,000   |    |
| Important small streams |         |                    | 7,050   |    |
|                         |         |                    | 102,250 |    |

Of the above total 88,420 were pink salmon and 13,830 chums. NOTE:

CHART NO. 8517 FINAL ESTIMATE

1930

| STREAM                         | STREAM | DATE         | NUMBER | PERCENT |
|--------------------------------|--------|--------------|--------|---------|
| LOCATION                       | NUMBER | ESTIMATED    | FISH   | CHUMS   |
| Vaight Talond                  | 1      | September 1  | 1,600  |         |
| Knight Island<br>Knight Island | ÎA     | August 31    | 4,200  |         |
| Knight Island                  | 2      | August 31    | 4,200  |         |
| Ewan Bay                       | 3      | August 21    | 2,000  |         |
| Ewan Bay Lagoon                | 4      | August 22    | 15,000 |         |
| Paddy Bay                      | 5      | August 21    | 1,300  |         |
| Paddy Bay                      | 6      | August 21    | 3,300  | 5       |
| Eshamy Lagoon                  | 7      | August 20    | 7,500  |         |
| Cumboot Creek                  | 8      | August 20    | 500    |         |
| Main Bay                       | - 8A   | August 20    | 500    | 20      |
| McClure Bay                    | 9      | August 19    | 1,000  | 10      |
| McClure Bay                    | 10     | August 19    | 6,500  | 85      |
| McClure Bay                    | 10A    | August 19    | 1,000  | 90      |
| Blue Fiord                     | 11     | August 19    | 1,300  | 25      |
| Port Nellie Juan               | 12     | August 18    | 450    |         |
| Port Nellie Juan               | 12A    | September 17 | 11,500 | 30      |
| Port Nellie Juan               | 13     | September 17 | 12,500 | 5       |
| Port Nellie Juan               | 14     | September 19 | 13,400 | 10      |
| Port Nellie Juan               | 15     | September 17 | 39,000 | 4       |
| Port Nellie Juan               | 15A    | August 18    | 2,100  |         |
| Culross Passage                | 16     | September 18 | 13,000 | 5       |
| Culross Passage                | 17     | August 17    | 17,000 | 1       |
| Culross Passage                | 17A    | August 17    | 700    | 10      |
| Cochrane Bay                   | 18     | August 17    | 4,000  | . 5     |
| Cochrane Bay                   | . 19   | August 16    | 600    | 10      |
| Cochrane Bay                   | 20     | August 16    | 1,100  |         |
| Cochrane Bay                   | 21     | August 16    | 700    | 30      |
| Cochrane Bay                   | 22     | August 15    | 3,000  | 10      |
| Cochrane Bay                   | 23     | August 15    | 5,000  | 10      |
| Blackstone Bay                 | 23A    | August 15    | 3,700  | 7       |
| Important small stre           | ams    |              | 2,550  |         |
|                                |        |              |        |         |

180,200

NOTE: Of the above total 163,691 were pink salmon and 16,509 chums.

CHART NO. 8520

FINAL ESTIMATE

1930

| STREAM              | STREAM      | DATE         | NUMBER  | PERCENT |
|---------------------|-------------|--------------|---------|---------|
| LOCATION            | NUMBER      | ESTIMATED    | FISH    | CHUMS   |
| Hartney Bay         | ı           | Allowance    | 2,000   |         |
| Cordova Bay         | 2           |              | Nothing |         |
| Fleming Spit        | 3           | Allowance    | 200     |         |
| Humpback            | 4           | Allowance    | 5,000   |         |
| Cordova, Bay        | 5           | Allowance    | 500     |         |
| Cordova Bay         | 6           | Allowance    | 500     |         |
| Cordova Bay         | 6A          | Allowance    | 250     |         |
| Cordova Bay         | 6B          | Allowance    | 250     | -       |
| Simpson Bay         | 7           | August 29    | 500     |         |
| Simpson Bay         | 8           | August 29    | 8,000   | 40      |
| Simpson Bay         | . 9         | August 29    | 200     | 2       |
| Simpson Bay         | 10          | August 29    | 150     | 600 SEC |
| Sheep Bay           | 11          | October 3    | 37,000  | 25      |
| Sheep Bay           | 12          | October 3    | 12,000  | 30      |
| Sheep Bay           | 13          | August 30    | 450     |         |
| Hawkins Island      | 14          | Allowance    | 300     |         |
| Windy Bay           | 15          | August 19    | 1,500   |         |
| Makaka Point        | 16          | August 19    | 6,000   |         |
| Hawkins Island      | 16A         | September 19 | 15,000  |         |
| Canoe Passage       | <b>16</b> B | Allowance    | 5,000   |         |
| Boswell Bay         | 17          | Allowance    | 7,000   |         |
| Hawkins Cutoff      | 18          | Allowance    | 1,500   | 50      |
| Hawkins Cutoff      | 19          | Allowance    | 3,000   | 50      |
| Hawkins Cutoff      | 20          | Allowance    | 3,000   | 50      |
| Hawkins Cutoff      | 21          | Allowance    | 1,500   |         |
| Anderson Bay        | 22          | August 19    | 3,500   | 75      |
| Anderson Bay        | 23          | August 19    | 1,000   | 10      |
| Anderson Bay        | 24          | September 12 | 7,500   |         |
| Anderson Bay        | 25          | September 12 | 1,500   |         |
| Johnstone Point     | 26          | Allowance    | 100     |         |
| Shelter Bay         | 27          | September 11 | 6,000   | 10      |
| Hinchenbrook Island | 28          | September 11 | 12,000  | 65      |
| Hinchenbrook Island | 29          | September 11 | 10,000  | 10      |
| Port Etches         | 30          | September 9  | 5,000   | 60      |
| Port Etches         | 31          | September 10 | 20,000  | 40      |
| Port Etches         | 32          | September 10 | 11,000  | 75      |
| Port Etches         | 33          | September 10 | 21,000  | 70      |
| Port Etches         | 34          | September 10 | 32,000  | 25      |
| Port Etches         | 35          | September 9  | 76,000  | 70      |

317,400

NOTE: Of the above total 190,321 were pink salmon and 127,079 chums.

CHART NO. 8519

FINAL ESTIMATE

1930

| STREAM          | STREAM     | DATE      |    | NUMBER  | PERCENT |
|-----------------|------------|-----------|----|---------|---------|
| LOCATION        | NUMBER     | ESTIMATI  | ED | FISH    | CHUMS   |
| Gravina Bay     | 1          | August 31 |    | 950     |         |
| Gravina Bay     | 2          | August 31 |    | 20      | ***     |
| Gravina Bay     | 3          | August 31 |    | 900     |         |
| Gravina Bay     | 4          | August 31 |    | 440     |         |
| Gravina Bay     | 5          | August 31 |    | 3,500   |         |
| Gravina Bay     | 6          | September | 1  | 400     |         |
| Gravina Bay     | 7          | October 3 |    | 63,000  | 4       |
| Gravina Bay     | 8          | September | 1  | 1,200   |         |
| Gravina Bay     | . 9        | September | 1  | 180     |         |
| Olsen Bay       | 10         | October 2 |    | 20,400  | 2       |
| Olsen Bay       | 11         | August 23 |    | 4, 500  | 1       |
| Gravina Bay     | 12         | September | 2  | 750     | 2       |
| St. Matthew Bay | 13         | September | 2  | 11,000  | 1       |
| Two-Moon Bay    | 14         | September | 3  | 550     |         |
| Irish Cove      | 15         | September | 4  | 600     |         |
| Whalen Bay      | 16         | September | 4  | 11,000  | 2       |
| Fidalgo Bay     | 17         | September | 4  | 1,800   | 10      |
| Fidalgo Bay     | 17A        | October 1 |    | 51,000  | 90      |
| Fidalgo Bay     | 18         | October 1 |    | 130,000 | 98      |
| Fidalgo Bay     | 19         | September | 5  | 600     |         |
| Fish Bay        | 20         | September | 29 | 50,000  | 6       |
| Fish Bay        | 21         | September | 5  | 1,700   |         |
| Fish Bay        | 22         | September | 5  | 300     |         |
| Fish Bay        | 23         | September | 5  | 1,600   |         |
| Landlocked Bay  | 24         | September | 5  | 50      |         |
| Landlocked Bay  | 25         | September | 6  | 7,500   | 70      |
| Boulder Bay     | 26         | September | 6  | 1,500   |         |
| Gladhaugh Creek | 27         | September | 6  | 1,050   |         |
| Galena Bay      | 28         | September | 7  | 6,000   |         |
| Galena Bay      | 29         | September | 7  | 2,500   |         |
| Galena Bay      | 30         | September | 29 | 67,000  | 3       |
| Galena Bay      | 31         | September | 28 | 16,000  |         |
| Valdez Arm      | <b>3</b> 2 | September | 8  | 4,500   |         |
| Jack Bay        | 33         | September | 8  | 4,800   | 20      |
| Jack Bay        | 34         | September | 8  | 5,600   | 2       |
| Jack Bay        | 35         | September | 28 | 21,000  |         |
| Jack Bay ·      | 36         | September | 28 | 32,000  | 50      |
| Valdez Arm      | 37         | Allowance |    | 5,000   |         |
| Waldez Arm      | 38         |           |    | Nothing |         |
| Sawmill Bay     | 39         | September | 27 | 35,000  | 60      |

# The Commissioner - Page 11

| STREAM       | STREAM | DATE         | NUMBER  | PERCENT |
|--------------|--------|--------------|---------|---------|
| LOCATION     | NUMBER | ESTIMATED    | FISH    | CHUMS   |
| Sawmill Bay  | 40     | September 27 | 9,400   | 10      |
| Sawmill Bay  | 41     | September 9  | 350     |         |
| Columbia Bay | 42     |              | Nothing |         |
| Long Bay     | 43     | September 26 | 1,800   |         |
| Long Bay     | 44     | September 26 | 41,000  | 20      |
| Long Bay     | 45     | September 26 | 120,000 | 2       |
| Long Bay     | 46     | Allowance    | 300     |         |
|              |        |              | 738,740 |         |

NOTE: Of the above total 502,070 were pink salmon and 236,670 chums.

CHART NO. 8550

FINAL ESTIMATE

1930

| STREAM              | STREAM | DATE         | NUMBER  | PERCENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|--------|--------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOCATION            | NUMBER | ESTIMATED    | FISH    | CHUMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                     |        |              |         | And the second s |
| Near Glacier Island | 1      | Allowance    | 200     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Near Glacier Island | . 2    | September 25 | 6,200   | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Near Glacier Island | 3      | Allowance    | 1,000   | - ma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cedar Bay           | 4      | September 25 | 113,000 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wells Bay           | 5      | September 24 | 8,000   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wells Bay           | . 6    | September 24 | 42,000  | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Unakwik Inlet       | 7      | September 22 | 16,700  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Unakwik Inlet       | 8      | August 9     | 9,600   | ***                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Unakwik Inlet       | 9      | September 22 | Nothing |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Unakwik Inlet       | 10     | August 11    | 5,600   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Unakwik Inlet       | 11     | September 23 | 46,000  | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Unakwik Inlet       | 114    | September 23 | 26,500  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Eaglik Bay          | 12     | September 21 | 18,000  | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Eaglik Bay          | 13     | September 21 | 40,000  | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Eaglik Bay          | 14     | September 21 | 9,000   | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Eaglik Bay          | 15     | September 21 | 63,000  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Eaglik Bay          | 16     | September 21 | 4,500   | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Esther Passage      | 17     | August 12    | 300     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Esther Passage      | 18     | August 12    | 4,000   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Esther Passage      | 18A    | August 13    | 1,200   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Esther Passage      | 18B    | August 13    | 1,000   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Golden              | 180    | August 13    | 4,000   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| College Fiord       | 19     |              | Nothing |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Coghill River       | 20     | Allowance    | 10,000  | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Harrison Lagoon     | 21     | August 13    | 11,000  | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hobo Bay            | 22     | August 13    | 10      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Bettles Bay         | 23     | August 13    | 8,000   | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hummer Bay          | 24     | August 14    | 2,000   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Pirate Cove         | 24A    | August 14    | 275     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Pigot Bay           | 25     | August 14    | 11,000  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Entry Cove          | 25A    | August 14    | 600     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Logging Camp Bay    | 25B    | August 14    | 4,600   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chenega Island      | 26     | Allowance    | 1,000   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chenega Island      | 26A    | August 30    | 10,000  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chenega Island      | 27     | Allowance    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chenega Island      |        |              | 300     | ***                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                     | 28     | August 22    | 5,000   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chenega Island      | 29     | August 22    | 2,500   | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Chenega Island      | 30     | August 23    | 2,000   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chenega Island      | 30A    | August 29    | 800     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| STREAM<br>LOCATION      | STREAM<br>NUMBER | DATE<br>ESTIMATED | NUMBER<br>FISH | PERCENT<br>CHUMS |
|-------------------------|------------------|-------------------|----------------|------------------|
|                         |                  |                   |                |                  |
| Jackpot Bay             | 31               | August 22         | 3,800          | 20               |
| Jackpot Bay             | 32               | August 23         | 35,000         |                  |
| Jackpot Bay             | 33               | August 23         | 4,600          |                  |
| Jackpot Bay             | 34               | August 22         | 14,000         | 25               |
| Whale Bay               | 35               | August 29         | 1,200          |                  |
| Whale Bay               | 36               | August 29         | 7,300          | 20               |
| Whale Bay               | 37               | August 29         | 600            |                  |
| Whale Bay               | 38               | August 29         | 3,000          | 10               |
| Point Countess          | 39               | August 29         | 1,800          | 400 bas          |
| Bainbridge Passage      | 40               | August 29         | 3,500          |                  |
| Bainbridge Passage      | 41               | August 28         | 10,500         |                  |
| Bainbridge Passage      | 42               | August 28         | 3,000          | 600 ton          |
| Bainbridge Passage      | 43               | August 28         | 400            |                  |
| Bainbridge Head         | . 44             | August 28         | 6,500          |                  |
| Hogg Bay                | 44A              | August 27         | 3,000          | 5                |
| Hogg Bay                | 44B              | August 28         | 30             |                  |
| Important small streams |                  |                   | 19,400         |                  |
|                         |                  |                   | 606,515        |                  |

NOTE: Of the above total 575,055 were pink salmon and 31,460 chums.

# PRINCE WILLIAM SOUND

EAST SIDE (Includes all streams east of 147° 20° west longitude)
Total fish in numbered streams:

| Chart No. | Pinks   | Chums   | Total     |
|-----------|---------|---------|-----------|
| 8515      | 74,050  | 52,950  | 127,000   |
| 8519      | 502,070 | 236,670 | 738,740   |
| 8520      | 190,321 | 127,079 | 317,400   |
|           | 766,441 | 416,699 | 1,183,140 |

WEST SIDE (Includes all streams west of 147° 20° west longitude)
Total fish in numbered stream:

| Chart No. | Pinks   | Chums  | Total   |
|-----------|---------|--------|---------|
| 8515      | 88,420  | 13,830 | 102,250 |
| 8517      | 163,691 | 16,509 | 180,200 |
| 8550      | 575,055 | 31,460 | 606,515 |
|           | 827,166 | 61,799 | 888,965 |

TOTAL ESCAPEMENT, PRINCE WILLIAM SOUND AREA..... 2,486,526

# NOTE:

The foregoing estimations were tabulated from the log of Captain George E. Scott of the chartered boat Prospector and represent the final estimates for the streams of the Prince William Sound area. Estimates made by other members of the Bureau of Fisheries are not included in the escapement tabulation except in a few instances where Captain Scott was unable to visit the streams.

In covering the district for the final escapement records, Captain Scott was supplied with estimates made by other members of the Bureau in various localities. These estimates were found to compare favorably with the estimates made by Captain Scott except where the lapse of time enabled a later run of fish to be tabulated. The use of these estimates by Captain Scott, some of which were made within a week or two of his final visit, enabled him to complete this year's escapement survey of Prince William Sound earlier and more thoroughly than in the past.

# SALMON ENEMIES

Activities against salmon enemies in the Central Alaska District consisted of operations against trout and seal.

Stream guards and other members of the Bureau of Fisheries personnel in the Central Alaska District were instructed to shoot seal and predatory birds under conditions commensurate with the efficient handling of their other duties.

Bureau cooperation was extended to Messrs. Halferty, Einmo and Malloy in the seining and destruction of trout in various localities throughout the District. These three trout operators captured and marketed over twenty-five thousand trout up to the first of October and plan to continue their operations as long as trout can be secured in commercial numbers.

During the fore-part of the Copper river run of reds when seals are very numerous and quite active among the Sand Islands of the Upper Delta, Alex Lamont, later employed as a stream guard, was induced to visit this locality and hunt down seals. He reported making expenses while so engaged, but stated that he recovered only about one seal for every three killed.

Hair seals do tremendous harm to salmon runs in this Delta region, and in observing and thinking the matter over carefully it appears that something definite should be done to stop their depredations. The wilderness locality where these natural enemies of the salmon operate gives an opportunity for a novel and highly efficient handling of their extermination. The method employed, to my mind, should involve the use of an airplane and some form of poison gas. On any calm day the airplane could swoop low over the Delta area and drop bombs containing a heavy gas which would roll low over the water and instantly kill every hair seal that rose to the surface. These operations would have to be carried out before any fishermen were on the grounds, - sometime early in the month of May.

### HERRING

Herring activities were confined to reduction plants, four of which were operated during the past season. The names of the companies and the location of their plants follow:

## Company

Chatham Strait Fish Company San Juan Fishing & Packing Company Johnson Fisheries Company Port Benny Packing Company

# Location of Plant

Crab Bay Port San Juan Thumb Bay Port Benny In addition to the foregoing companies the motor ship "Donna Lane", of the Utopian Fisheries, Incorporated, anchored in Saw Mill Bay late in September, and engaged in packing Scotch cured herring. This plant sold its herring offal and herring unsuitable for curing purposes to the Port Benny reduction plant.

The reduction plants, named above, packed a few barrels of Scotch cured herring in conjunction with reduction plant activities.

One new company in the process of organization took over the old Tiederman property in Simpson Bay and plans to cure herring and install reduction machinery there for the coming season.

The Chatham Strait Fish Company, the largest operator in the district, up to the close of September had produced 350,000 gallons of herring oil, 1,200 tons of herring meal and approximately 2,000 barrels of Scotch cured herring.

The Port Benny Packing Company, headed by W. J. Imlach, acquired the Morgan Packing Company plant by sheriff's sale and began operating it in September. By the close of that month the plant had produced 5,000 gallons of herring oil, two tons of meal, and slightly over 100 barrels of Scotch cured herring.

Herring were more plentiful in the waters of Prince William Sound this season than for many years past. However, they were of small size and not very choice for curing purposes. Late in September the percentage of curable herring increased, and operators cured more of the large fat herring.

# CLAMS

A clam patrol was commenced on April 21st, utilizing the chartered boat "Pilot". The various canneries, weighing stations and clam bars were visited frequently from the commencement of the patrol until the close of the season July 15th. With the opening of the season September 1st, operations were again kept under surveillance.

Three canneries operated in the vicinity of Cordova this year, two of which were hand plants. About seventy diggers were employed by these three canneries. S. E. Smith's Cannery employed from three to five diggers; E. A. Haltness Cannery from eight to ten and the Pioneer Packing Company from fifty to sixty.

The Pioneer Packing Company plant established two receiving stations, one located at Cape Whitshed which had an average of thirty-five diggers and the other in Boswell Bay with an average of twenty diggers. The Boswell Bay station was moved to Egg Island in June when weather conditions on the flats were favorable.

The age count of clams this year ran as an average six years. At the commencement of the clam patrol, early in the season, diggers and operators of the district were warned not to take clams under the regulation limit of four and one-half inches. Weather and tidal conditions for the most part during the early part of the season, undoubtedly, accounted for the small dig. The average size of clams throughout April and up to the middle of May was five and one-quarter inches. Up to this time the tides were none too favorable for diggers and the weather was cold. From the middle of May to the middle of July, when the season closed, the average was five and three-quarter inches.

With the opening of the season in September operations were resumed on a more limited scale, but by mid-month all digging ceased. The Pioneer and Haltness plants planned no further operations for the remainder of the year. The Smith Cannery will operate intermittently when weather and tidal conditions are favorable.

Point Steele beach, on Hinchinbrook Island, was visited once during the season by the boat on clam patrol. This beach has an abundance of clams and has been, as yet, dug very little. The exposed condition and inaccessibility of this beach to diggers accounts for this.

#### CRABS

One crab meat packing plant operated in the district this season. This was the plant of the Northern Sea Food Company located at Cordova. It put up a very small pack due to a poor market for the product.

Cockerel and Horse clams were used for baiting the crab pots in making catches.

#### SHRIMP

Considerable prospecting for shrimp was carried on in the vicinity of Cordova the past season. Operations were conducted by Mr. Thomas Scott, of the Cordova Packing Company, and Mr. Charles Ulson, of the American Can Company.

Shrimp in commercial quantities were located in the vicinity of Cordova and appeared very similiar to the Petersburg product. Various processes for canning these shrimp were tested in Cordova but no definite action has yet been undertaken on a commercial scale.

#### VISITORS

Mr. Henry O'Malley, Commissioner of Fisheries of the United States, and party visited the District during the season. Traveling aboard the flag ship "Brant", they arrived in Prince William Sound waters early the morning of July 25th.

The party remained in Sound waters two days, visiting Port San Juan, Port Ashton, Nellie Juan, Valdez, and Cordova, leaving on the evening of July 26th for Southeastern Alaska points.

# RECOMMENDED CHANGES IN REGULATIONS

# Resurrection Bay Area

Paragraph 7. It is recommended that Paragraph 7 be made to read:
"Commercial fishing for salmon is prohibited during
the remainder of each calendar year after 6 o'clock
postmeridian September 20."

# Prince William Sound Area

- Paragraph 2. It is recommended that Paragraph 2 be made to read:

  "No salmon fishing boat shall carry or operate more than one seine of any description, and no additional net of any kind shall be carried on such boat. The carrying of any additional seine or net of any kind on a boat towed by any salmon fishing boat is prohibited. No purse seine shall be less than 150 meshes in depth nor less than 125 fathoms nor more than 150 fathoms in length measured on the cork line. For the purpose of determining depths of seines, measurements will be upon the basis of 3½ inches stretched measure between knots. No extension to any seine in the way of leads will be permitted."
- Paragraph 6. It is recommended that Paragraph 6 of the Prince William Sound area be withdrawn.
- Paragraph 7. It is recommended that Paragraph 7 be changed to read:
  "Commercial fishing for salmon, except by trolling,
  is prohibited prior to 6 o'clock antemeridian June 20
  in each calendar year."
- Paragraph 10. It is recommended that Paragraph 10 be abolished.
- Paragraph 12. It is recommended that Paragraph 12 (c), (d), (e), (f), (g), (h), (j), (k), (l), (m), (o), (u) and (y) be abolished.

  It is recommended that (p) be changed to read:
  "Unakwik Inlet, indenting mainland on north shore of Prince William Sound: All waters north of an east and west line passing through the northern side of the entrance to Jonah Bay."